

Amy LaCross

Department of Speech & Hearing Sciences
Arizona State University
Tempe, Arizona 85287-0102

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Employment

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| Spring 2014 – present | Assistant Research Professor
Department of Speech & Hearing Sciences
Arizona State University |
| Fall 2014 | Adjunct Lecturer
Department of Linguistics
University of Arizona |
| 2012–2014 | Postdoctoral Researcher
Department of Physiology
University of Arizona |
| 2011–2012 | Postdoctoral Researcher/Instructor
Department of Linguistics
Universität Potsdam |

Education

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| 2011 | Doctor of Philosophy (Ph.D.) Linguistics
<i>Major: Phonology; Minor: Cognitive Science</i>
<i>Dissertation title: The role of language-specific phonology: Tracking linguistic variables in Khalkha Mongolian</i>
University of Arizona |
| 2008 | Master of Arts (M.A.) Linguistics
University of Arizona |
| 2001 | Bachelor of Arts (B.A.) English
College of St. Benedict |

Research Interests

Laboratory phonology: speech segmentation, vowel harmony, prosody and syllabification; Articulatory and Acoustic phonetics; Psycholinguistics: lexical access and phonological representations; Mongolian Phonology; Neurolinguistics and Cognitive Science: neurophysiology, motor control of speech, motor speech disorders; Language Preservation and Revitalization.

Grants & Fellowships

2019-Present	Perception of dysarthric speech: Supplement to expand scope to Spanish-speaking Latina Women National Institute of Health, Administrative Supplement	\$120,000	Investigator
2017-present	Perception of dysarthric speech: An objective model of dysarthric speech evaluation with actionable outcomes National Institute of Health, R01	\$363,140	Investigator
2015-2017	A web-based platform for cross-linguistic research in dysarthric speech National Institute of Health, R21	\$205,351	Investigator
2015-2017	An augmentative tool to connect speech language pathologists with patients National Science Foundation, STTR Phase 1	\$224,737	Co-PI
2010-2011	American Center for Mongolian Studies: Doctoral Fellowship United States State Department	\$27,000	Fellow
2008	Travel Grant: Cognitive Science Program University of Arizona	\$800	

Publications

LaCross, A., Watson, P., & Bailey, E.F. (2017). Expiration-related changes in laryngeal airway aperture modulate tongue muscle motor unit activation. *Frontiers in Physiology* (8) 27: 1-9.

Berisha, V., Wang, S., **LaCross, A.,** Liss, J. & Garcia-Filion, P. (2017). Longitudinal changes in linguistic complexity in professional athletes at-risk for chronic traumatic encephalopathy. *Brain and Language* 169: 57-63.

LaCross, A., Liss, J., Barragan, B., Adams, A., Berisha, V., McAuliffe, M., & Fromont, R. (2016). The role of stress and word size in Spanish speech segmentation. *The Journal of the Acoustical Society of America*, 140(6), EL484-EL490.

Kawabata, K., Berisha, V., Scaglione, A., & **LaCross, A.** (2016). A Convex Model for Linguistic Influence in Group Conversations. In *INTERSPEECH* (pp. 1442-1446).

Berisha, V., Wang, S., **LaCross, A.,** & Liss, J. (2015). Tracking discourse complexity preceding Alzheimer's disease diagnosis: a case study comparing the press conferences of Presidents Ronald Reagan and George Herbert Walker

Bush. *Journal of Alzheimer's Disease*, 45(3), 959-963.

LaCross, A. (2015). Khalkha Mongolian speakers' vowel bias: L1 influences on the acquisition of non-adjacent vocalic dependencies. *Language, Cognition and Neuroscience*, 30(9), 1033-1047.

LaCross, A. (2012). Non-adjacent phonological dependency effects on Khalkha Mongolian speech perception. In *Proceedings of the 29th West Coast Conference on Formal Linguistics (WCCFL)* (Vol. 29, pp. 143-151).

Francom, J., **LaCross, A.**, & Ussishkin, A. (2010, May). How Specialized are Specialized Corpora? Behavioral Evaluation of Corpus Representativeness for Maltese. In *LREC*.

Talks

Peer-reviewed conferences:

Liss, J., Jiao, Y., **LaCross, A.**, & Berisha, V. (2020). *Automating Objective Measures of Change in Speech Intelligibility*. Motor Speech Conference, Santa Barbara, CA.

LaCross, A., Sandoval, J., & Liss, J. (2020). *The effects of word size and tonal sequence probability on Mandarin speakers' segmentation and well-formedness ratings*. Linguistic Society of America, New Orleans, LA.

LaCross, A., Sandoval, J., & Liss, J. (2019). *The influence of word size and tonal sequence probability on Mandarin well-formedness judgments*. Acoustical Society of America, San Diego, CA.

LaCross, A., Sandoval, J., & Liss, J. (2018). *Influence of word size & tonal sequence probabilities on Mandarin segmentation errors*. Acoustical Society of America, Victoria, B.C., Canada.

LaCross, A., McAuliffe, M., Liss, J., Barragan, B., Adams, A., & Berisha, V. (2016). *The role of stress and syllable number as a cue for Spanish speech segmentation*. International Clinical Phonetics and Linguistics Association, Halifax, Nova Scotia, Canada.

LaCross, A. & Bailey, E.F. (2014). *Temporal characteristics of vowel articulation*. Poster Presentation. Acoustical Society of America, Providence, RI.

LaCross, A., Watson, P.J., & Bailey, E.F. (2014). *Single motor unit activity in the genioglossus during phonated and whispered vowel articulations*. Motor Speech Conference, Sarasota, FL.

LaCross, A., Takano, S., Kidder, I., Watson, P.J., Bailey, E.F. (2013). *Single motor unit activity in the genioglossus during speech production*. Linguistic Society of America Annual Meeting, Boston, MA.

LaCross, A., Takano, S., Kidder, I., Watson, P.J., Bailey, E.F. (2012). *Single motor unit activity in the genioglossus muscle during vowel articulation.* Poster Presentation. Acoustical Society of America, Kansas City, MO.

LaCross, A., Takano, S., Watson, P.J., Bailey, E.F. (2012). *Genioglossus motor unit activities in quasi-speech tasks.* Poster Presentation. With S. Takano, P.J. Watson, & E.F. Bailey. Society for Neuroscience, New Orleans, LA.

LaCross, A. (2012). *Native language biases of Khalkha Mongolian speakers in the acquisition of non-adjacent phonological dependencies.* Old World Conference on Phonology, Berlin, Germany.

LaCross, A. (2011). *Non-adjacent phonological dependency effects: Three experiments on Khalkha Mongolian speech perception.* West Coast Conference on Formal Linguistics 29, Tucson, AZ.

LaCross, A. (2011). *Non-adjacent phonological pattern effects on Khalkha Mongolian speech perception.* Linguistic Society of America Annual Meeting, Pittsburgh, PA.

LaCross, A. (2010). *Language revitalization and preservation: A look at Mongolia.* American Center for Mongolian Studies Annual Conference, Ulaanbaatar, Mongolia.

LaCross, A. (2010). *Regularity and vowel harmony: Statistical learning and rule abstraction.* Linguistic Society of America Annual Meeting, Baltimore, MD.

LaCross, A. & Ussishkin, A. (2009). *Results from a study on Maltese verb familiarity.* International Conference on Maltese Linguistics, Bremen, Germany.

LaCross, A. (2008). *Faithfulness and positional licensing: The MATCH constraint in Khalkha Mongolian [ATR] vowel harmony.* Poster Presentation. Manchester Annual Phonology Meeting, Manchester, UK.

LaCross, A., Sandoval, J. (Brewer), & Ussishkin, A. (2008). *Morphological family size in Hebrew auditory lexical decision.* Linguistic Society of America Annual Meeting, Chicago, IL.

LaCross, A. (2008). *Experimental evidence for the role of syllable structure in lexical access.* Poster Presentation. Linguistic Society of America Annual Meeting, Chicago, IL

Invited:

LaCross, A., Liss, J., McAuliffe, M., Barragan, B., & Berisha, V. (2017). The effects of typological variation and probability on segmentation errors in Spanish. Morphological Typology and Linguistic Cognition Workshop at the Linguistic Society of America Summer Institute. Lexington, KY.

LaCross, A. (2015). Lexical frequency and phonological neighborhood density effects on dysarthric vowel space dispersion. Department of Speech and Hearing Sciences, Arizona State University.

Berisha, V., Wang, S., **LaCross, A.**, & Liss, J. (2015). Tracking discourse complexity: A case study of Presidents Ronald Reagan and George Herbert Walker Bush. Department of Speech and Hearing Sciences, Arizona State University.

LaCross, A. (2014). The temporal basis of vowel articulation: An electromyographic investigation of the 'articulatory period.' Department of Linguistics, University of Arizona.

LaCross, A. (2013). Motor unit activity of the genioglossus during vowel production. Department of Speech, Language & Hearing Sciences, University of Arizona.

LaCross, A. (2011). The role of language-specific phonology: Tracking linguistic variables in Khalkha Mongolian. Department of Linguistics, Universität Potsdam.

LaCross, A. (2010). Speech perception in Khalkha Mongolian: A psycholinguistic survey. American Center for Mongolian Studies, Ulaanbaatar, Mongolia.

LaCross, A. (2009). Harmonic class priming: Evidence from a pilot on Khalkha Mongolian. Institute of Linguistics, University of Malta.

LaCross, A., & Ussishkin, A. (2009). The root in Semitic languages. Institute of Linguistics, University of Malta.

LaCross, A., & Ussishkin, A. (2008). A hybrid model of the Semitic lexicon: Psycholinguistic evidence from Hebrew. Tel Aviv University.

LaCross, A., & Ussishkin, A. (2008). Semitic morphology: Root-based and word-based. Workshop on Semitic Morphology: Root-based or Word-based, Hebrew University.

Teaching

*Indicates classes taught as teaching assistant or section instructor

Arizona State University

<i>Date</i>	<i>Course Title</i>	<i>Course Level</i>
Fall 2019	Introduction to Phonetics	<i>undergraduate</i>
Summer 2019	Introduction to Phonetics	<i>undergraduate</i>
Spring 2015	Neuro-motor Speech Disorders	<i>graduate</i>

University of Arizona

Fall 2014	Phonetics	<i>undergraduate</i>
Fall 2014	Phonology	<i>undergraduate</i>
Spring 2011	Mind, Self & Language*	<i>undergraduate</i>
Spring 2009	Language Acquisition	<i>undergraduate</i>
Spring 2008	Phonology*	<i>undergraduate</i>
Spring 2008	Language Acquisition	<i>undergraduate</i>
Fall 2007	Phonetics	<i>undergraduate</i>
Spring 2007	Language Acquisition	<i>undergraduate</i>

Universität Potsdam

Fall 2011	Seminar: Nonadjacent Dependencies	<i>graduate</i>
Fall 2011	Phonetics	<i>undergraduate</i>

Additional Relevant Experience

2008-2009	Undergraduate Adviser	<i>Linguistics Dept, University of Arizona</i>
2003-2005	Literacy Teacher	<i>City Academy High School, St. Paul, MN.</i>
2001-2003	Teacher Trainer	<i>Peace Corps, Baruun-Urt, Mongolia</i>
2001	Student Teacher	<i>Elk River School District, Elk River, MN.</i>
1999	Guest Teacher	<i>Southwest China Normal University, Beibei, China</i>

Community Outreach

2015 - present Mongolian Language and Cultural Consultant
 Department of Child Safety
 Pima County, Arizona

Service

Arizona State University

2015 - 2017 Master's Thesis Committee Member
 Department of Speech and Hearing Sciences

2015 - present NSF and NIH Grant Management, Motor Speech Disorders Lab
 Department of Speech and Hearing Sciences

University of Arizona

2014 Orals Committee Member
 Department of Linguistics

2008-2009 Organizer: Sound Minds
 Department of Linguistics

2006

Co-Organizer: Linguistics Department Colloquium
Department of Linguistics

Languages

Fluent:	Knowledge of:	
English	Mandarin	Modern Hebrew
Khalkha Mongolian	American Sign Language	Maltese
	German	Spanish